WHAT IS CLAIMED IS:

1. A display device for a watch movement of the type comprising:

- a frame,
- a set of wheels pivotably mounted on the frame and wherein the angular position of a first and a second of said wheels is a function of the state of a piece of information to be displayed, and
- a display member mobile about an axis,

including, in combination:

- a display mobile pivotably mounted on the frame about said axis and arranged for carrying the display member,
- connecting members for kinematically connecting said mobile to one or other of the first and second wheels, and
- activating means cooperating with the connecting members and arranged to allow the connection of said mobile to be switched from one of said first and second wheels to the other.

2. A device according to claim 1, wherein the first wheel is coaxial with said mobile and wherein said connecting means include a cam securely fixed to said display mobile in rotation and a first hammer disposed on the first wheel facing said cam and provided with an elastic member arranged to hold it abutting against the cam, such that said first wheel can drive said mobile in rotation via the action of the hammer on the cam.

3. A device according to claim 2, wherein said control means include a control mechanism and a switching mechanism enabling or disabling the control mechanism and cooperating with the first hammer such that it is removed from the cam when said control mechanism is activated.

4. A device according to claim 3, wherein said control mechanism is of the chronograph type.

5. A device according to claim 2, wherein said second wheel is pivotably mounted about an axis substantially parallel to the axis of the mobile and wherein the connecting means further comprise:

- a connecting wheel disposed coaxially with the second wheel and kinematically connected to said mobile,

- a second hammer and a second cam one disposed on the connecting wheel and the other on the second wheel,

and wherein the drive means include a coupling-disconnecting member arranged for applying or not applying the second hammer against the second cam such that, when it is applied, the torque generated on the mobile by the connecting wheel is greater than that exerted by the first hammer on the first cam

6. A device according to claim 5, wherein an intermediate wheel is inserted between the connecting wheel and the mobile such that said mobile rotates in the same direction as the second wheel, when they are kinematically connected to each other.

7. A device according to claim 1, wherein said activating means are of the mono-stable type and arranged such that, during activation, the connecting means connect said mobile to one of said wheels and when the activation is interrupted, the connecting means connect the mobile to the other wheel.

8. A device according to claim 1, wherein said activating means are of the bi-stable type and arranged such that, during a first activation, the connecting means connect said mobile to one of said wheels and during a second activation, the connecting means connect the mobile to the other wheel